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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/506,353	09/02/2004	Masayoshi Miwa	120957	9957	
25944 75	90 07/24/2006		EXAMINER		
OLIFF & BERRIDGE, PLC			PARKER, FREDERICK JOHN		
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
			1762		
			DATE MAILED: 07/24/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
_	10/506,353	MIWA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Frederick J. Parker	1762	
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address	
Period for Reply	( IO OET TO EVOIDE & MONTH	0) OD TUUDTY (20) DAYO	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>09 Ju</u>	ıne 2006.		
·- ·	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>12-22</u> is/are pending in the application	1.		
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) 12-22 is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) acce		Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents			
2. Certified copies of the priority documents			
3. Copies of the certified copies of the prior	•	ed in this National Stage	
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •	٠,	
* See the attached detailed Office action for a list of	or the certified copies not receive	u.	
Attachment(s)	_		
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)	
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#### **DETAILED ACTION**

### Specification

The amendments in response to the Specification Objections of the Previous Office Action are acknowledged and appreciated, and the Examiner withdraws the objections.

### Claim Objections

The amendments in response to the Claim Objections of the Previous Office Action are acknowledged and appreciated, and the Examiner withdraws the objections.

## Claim Rejections - 35 USC § 112

The amendments in response to the 35 USC 112 rejections of the Previous Office Action are acknowledged and appreciated, and the Examiner withdraws the rejections.

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 12,13,16-21 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 63-168517.

JP 63-168517 discloses a method of applying information (alpha-numeric characters, bar codes, etc per claim 18) onto outer surfaces (fig. 2, etc) of cellular honeycomb catalyst supports made of ceramic components including cordierite, alumina, mullite LiAl Silicate, aluminum titanate, titania, zirconia, silicon or aluminum nitride, etc [0034]. The information may be applied by stamping (inherently a transfer method), laser, ink jet printing, etc [0022-23] per claim 19-20. The applied information, in turn, is over-coated by transparent water-repellent materials such as resin or silica sol (silica in water, [0049] per claims 13,17). The over-coating

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forms an impregnated, water-resistant portion of the cellular material about the applied information to prevent mottling and loss of clarity of the information by providing protection against the capillary flow/ oozing of applied catalyst solution through porous walls of the inner cells of the honeycomb in which catalyst solution is applied, as described in [0026-27]. The reference therefore anticipates claims 12,13,16-21 as provided.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claim 22 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP 63-168517.

The reference discloses a porous ceramic honeycomb, which has thereon information (alphanumeric characters, bar codes, etc) which in turn is coated/impregnated by transparent water-

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repellent materials such as resin or silica sol. The product would be the same as, or only slightly different from, that of claim 22. The patentability of a product is based upon the product itself as claimed, and not upon its method of production. If the product of a product-by-process claim is the same or obvious from a product of the prior art, it is unpatentable even though the processes of making may be different. It is the burden of Applicant to establish an unobvious difference between the claimed product and that of the prior art, MPEP 2113.

6. Claims 14,15 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 63-168517 and optionally in view of Hawley's.

JP 63-168517 is cited for the same reasons previously discussed, which are incorporated herein. While specific particle sizes of the silica sol are not cited, sols are a type of colloid by definition, colloids having a particle size of 1-100 nm which encompasses the range of claim 15. Hawley's is provided as support, although it remains the Examiner's position that this would have been known to one of ordinary skill. One of ordinary skill would have recognized the selection of finer particle sizes would have been advantageous to close off even fine sized open porosity to prevent capillary migration of detrimental catalyst fluids in the vicinity of the coated information, such that the selection of particle sizes of claim 15 would have been obvious. While the specific water: silica composition of the overcoat is not cited, it is the Examiner's position that one of ordinary skill would have developed the formula through routine experimentation to meet the requirements of the reference, namely to provide a resistant overcoat to protect the information for a cellular material of a given porosity/ pore size distribution.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to carry out the method of JP 63-168517 using sols of sufficient particle size to form an impregnated, water-resistant portion of the cellular material to prevent mottling and loss of clarity of the applied information by providing protection from the capillary flow of subsequently applied catalyst solution.

### Response to Arguments

This action is made non-final to correct a problem caused by the e-892 and a mailroom error; consequently the translation of the JP 63-168517 patent which contains bracketed paragraphs is enclosed (hopefully; if not, please notify Examiner). Applicants arguments regarding the notion that JP2002-221032 does not qualify as prior art is moot because the reference is never cited as part of the rejection, nor was/ is it present on the PTO-892. The current action therefore clarifies all issues raised by the Applicants.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick J. Parker whose telephone number is 571/272-1426. The examiner can normally be reached on Mon-Thur. 6:15am -3:45pm, and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571/272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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